

Application No.: 10/623,709

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Docket No.: 306812002601

AMENDMENTS TO THE CLAIMS

Claims 1-75 (Canceled)

Claim 76 (Previously Presented) An integrated circuit, comprising:

a first function block having a plurality of inputs and a plurality of outputs;

a first channel coupled to a first portion of the plurality of inputs located on a first side of the first function block and coupled to a first portion of the plurality of outputs located on the first side of the first function block;

a second channel coupled to a second portion of the plurality of inputs located on a second side of the first function block, the second side opposite the first side, and coupled to a second portion of the plurality of outputs located on the second side of the first function block;

a third channel coupled to the first channel and the second channel and coupled to a third portion of the plurality of inputs located on a third side of the first function block and coupled to a third portion of the plurality of outputs located on the third side of the first function block; and

a fourth channel associated with a fourth side of the function block that is opposite the third side, the fourth channel coupled only to the first channel and the second channel.

Claim 77 (Previously Presented) The integrated circuit of claim 76, wherein there is a difference between any two of: (a) a number of a first plurality of wires within the first channel, (b) a number of a second plurality of wires within the second channel, or (c) a number of a third plurality of wires within the third channel.

Claim 78 (Previously Presented) The integrated circuit of claim 76, further comprising:

a wire driving device having a plurality of inputs and an output, a particular one of the plurality of inputs coupled to a particular one of the plurality of outputs on a particular function block side that is any one of the first side, the second side, or the third side of the first function block, the wire driving device driving a signal, output by the first function block, on a particular one of a first plurality of wires within the first channel, a second plurality of wires within the second

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